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What is claimed is:

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1. A serum-free cell-freezing medium consisting essentially of a virus-production serum-free medium (VP-SFM) supplemented with (a) an enzymatic hydrolysate cryostabilizer selected from the group consisting of soy hydrolysate and rice hydrolysate, added at about 2 g per liter of said medium, and (b) dimethylsulfoxide (DMSO).

- 2. The serum-free cell-freezing medium of claim 1, which is supplemented with about 10% DMSO.
 - 3. A process for generating a stable serum-free Vero cell bank, which process comprises the steps of:
 - (a) initiating a culture, which comprises thawing frozen Vero cells and adding them to growth medium in a T-150 cm² flask, wherein the growth medium consists of VP-SFM with 4mM L-glutamine, incubating the cells overnight at about 37°C and 5% CO₂, and refeeding the culture with fresh growth medium the following day;
 - (b) propagating and amplifying the cells, which comprises growing the cells to confluence in the T-150 cm² flask incubated at about 37°C and 5% CO₂, removing the medium, washing the flask phosphate buffered saline (PBS) without calcium and magnesium, adding trypsin to the flask and incubating at room temperature for a sufficient time to dislodge the cells from the flask, neutralizing the trypsin with soybean trypsin inhibitor (STI) and adding VP-SFM for nutritional support, seeding the resulting suspension into five T-150 cm² flasks and adding VP-SFM to each flask to a level of 50 ml, incubating the cells at about 37°C and 5% CO₂ for three to four days, pooling the cell suspensions from the five flasks, seeding a cell factory with the pooled suspension, refeeding the cell factory, and harvesting the cell factory; and
 - (c) freezing the cell bank, which comprises centrifuging the harvested cells from the cell factory for 10 minutes at 210xg at 4°C, resuspending the cells in the serum-free cell-freezing medium of claim 1 at a density of 2 x 10⁶ to 2 x 10⁷ cells/ml, dispensing the cell suspension into cryovials at one ml of cell suspension per vial, freezing the cells using an active rate control freezer, and storing the cells in liquid nitrogen,

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wherein the stable serum-free Vero cell bank thus produced has a cell viability of at least 80% and a recovery doubling time between 40 and 60 hours after one year.

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- 4. A process for generating a stable serum-free Vero cell bank, which process comprises the steps of:
- (a) initiating a culture, which comprises thawing 2 x 10⁷ frozen Vero cells and adding them to 50 ml of growth medium in a T-150 cm² flask to obtain a cell density of 4-5x10⁵ cells/ml, wherein the growth medium consists of VP-SFM with 4mM L-glutamine, incubating the cells overnight at 37°C and 5% CO₂, and refeeding the culture with fresh growth medium the following day;
- (b) propagating and amplifying the cells, which comprises growing the cells to confluence in the T-150 cm² flask incubated at 37°C and 5% CO $_2$, removing the medium, washing the flask two times with 20 ml phosphate buffered saline (PBS) without calcium and magnesium, adding 5 ml trypsin to the flask and incubating at room temperature for a sufficient time to dislodge the cells from the flask, neutralizing the trypsin with 5 ml of soybean trypsin inhibitor (STI) and adding 10 ml modified VP-SFM for nutritional support, seeding the resulting suspension into five T-150 cm² flasks at a concentration of 4 x 10⁴ cells/cm² and adding VP-SFM to each flask to a level of 50 ml, incubating the cells at 37°C and 5% CO $_2$ for three to four days, pooling the cell suspensions from the five flasks, seeding a cell factory with the pooled suspension, refeeding the cell factory, and harvesting the cell factory; and
- (c) freezing the cell bank, which comprises centrifuging the harvested cells from the cell factory at for 10 minutes at 210xg at 4°C, resuspending the cells in the serum-free cell-freezing medium of claim 2 at a density of 1-2 x 10⁷ cells/ml, dispensing the cell suspension into cryovials at one ml of cell suspension per vial, freezing the cells using an active rate control freezer, and storing the cells in liquid nitrogen,
- wherein the stable serum-free Vero cell bank thus produced has a cell viability of at least 80% and a recovery doubling time between 40 and 60 hours after one year.
- 5. The serum-free cell-freezing medium of claim 1 or 2, wherein the enzymatic hydrolysate cryostabilizer is a soy hydrolysate.

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6. The serum-free cell-freezing medium of claim 1 or 2, wherein the enzymatic hydrolysate cryostabilizer is a rice hydrolysate.

- 7. A stable serum-free Vero cell bank having a cell viability of least 80% and a recovery doubling time between 40 and 60 hours after one year.
 - 8. A stable serum-free Vero cell bank having a cell viability of least 80% and a recovery doubling time between 40 and 60 hours after one year, wherein the cell bank is produced by the process of claim 3 or 4.

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